GEORGIA PEER REVIEW EVALUATION

	ess:	Water Syste	em Name:_		
Conta	act Name:	Date:			
Opera	ator Name:				
Phon	e #:				
		Well Wate	er Sources	i I	
1.		s posted or on file at the lity or water system office?	8.	Q Yes Q No Are there adequ Q Yes Q No	ate well seals?
2.	Is adequate we implemented? Q Yes Q No		9.	Were wells drill driller? Q Yes Q No	led by a certified well
3.	Is the well:		10.	What is the dep	th of the casing?feet
	Q Yes Q No	septic tank?	11.	What is the dep	th of grouting?feet
	Q Yes Q No	More than 100 feet from a septic tank absorption field?	12.		ave a suitable raw water (For example: smooth nosed,
	Q Yes Q No	sewer?		the check valve	d no threads) before or after?
	Q Yes Q No	a solid waste disposal		Q Yes Q No	
	Q Yes Q No	site? Near any open, abandoned wells?	13.	Is a drawdown grepair and used Q Yes Q No	gauge available, in good properly?
	Q Yes Q No	Protected from other sources of possible contamination?	14.	Are foot/check cleaning?	valves accessible for
	Q Yes Q No			Q Yes Q No	
4.	Is the well site Q Yes Q No	e subject to flooding?	15.	Does the pumpl Q Yes Q No Q Yes Q No	Appear well maintained? Have ponding of water
5.	Is the well site water away fro Q Yes Q No			Q Yes Q No	on the floor? Have floor drains that lead to a dry well to a sewer or septic tank?
6.		er wells in the zone of	16	Q Yes Q No	Are there cracks in the floor?
	influence? Q Yes Q No		16.		ldings properly maintained protected from vandals?
7.		unprotected direct openings or surrounding the well?			

WELL WATER SOURCES I

		Water System Name:
		Reviewer Name:
		Date:
17.	Is the air/vacuum relief valve properly	
	installed and screened?	
	Q Yes Q No	
	2 105 2110	
18.	Are check valves, blowoff valves, and water	
10.	meters maintained and operating properly?	
	Q Yes Q No	
	Q les Q No	
19.	Is well discharge mining properly equipped	
19.	Is well discharge piping properly equipped	
	from well to distribution? (Check all that	
	apply)	
	Q Check Valve Q Pressure Gauge	
	Q Flow Measuring Device Q Shutoff Valve	
• •		
20.	Are pumps and motors adequately	
	protected?	
	(Check all that apply)	
	Q Lighting Q Single Phase	
	Q Low Suction Q Other	
21.	Are all chemicals, lubricants, and fuels	
	properly stored segregating incompatible	
	chemicals?	
	Q Yes Q No	
22.	Is adequate spill protection and containmen	
	in place around chemical and fuel storage	
	tanks?	
	Q Yes Q No	
23.	Are there provisions for emergency	
	chlorination?	
	Q Yes Q No	
24.	Does the county have an approved Water	
	Supply?	
	Q Yes Q No	
_		
Kecom	mendations:	
		·
	-	-

		Revie	ewer Name:
l.	Attach a sketch of the treatment train and indicate where chemicals are added.	12.	Are there sufficient alternative processes, spare parts, and backup equipment? Q Yes Q No (explain)
2.	Are as-built drawings of the plant available? Q Yes Q No	13.	Do the daily logs accurately record all chemicals added to the water?
3.	Are flows within design specification? Q Yes Q No		Q Yes Q No
1.	Do there appear to be design flaws with the system? Q Yes (explain) Q No	14.	Does the plant have an on-site chemical Quality Assurance/Quality Control program? Q Yes Q No
5.	Are additional processes or equipment needed? Q Yes (explain) Q No	15.	What process control testing is done to determine effectiveness of treatment? (Check all that apply) Q jar testing Q stream current detectors Q alkalinity
	ical-General		Q hardness
б.	What pretreatment chemicals and processes are used to deal with water quality challenges? (Check all that apply)		Q otherQ other
	Q potassium permanganate Q lime Q sodium hydroxide Q copper sulfate Q sodium carbonate Q activated carbon Q sodium bicarbonate Q	16.	Are safe practices followed during chemical handling and mixing? Q Yes Q No
7	chlorine Q aeration Q other Are showing application points entimelly	17.	Are there adequate spill containment provisions? Q Yes Q No Explain:
7.	Are chemical application points optimally placed so they do not cancel or conflict with each other? (For example: chlorine and activated carbon)		
	Q Yes Q No		
3.	Are chemicals properly stored? Q Yes Q No	18.	Is appropriate safety equipment available and in use? (For example: self-contained breathing apparatus, goggles, gloved, eye wash, etc.)
€.	Are chemical dosages calculated properly? Q Yes Q No		Q Yes Q No
10.	Is the water supply line to the chemical feed system properly safeguarded? Q Yes Q No	19.	Have operators been trained to use the safety equipment? Q Yes Q No
11.	Is chemical feed equipment properly maintained, calibrated, and in good operating condition? Q Yes Q No (explain)	20.	Are the appropriate lighting, guards and railing, etc. in place? Q Yes Q No

			r System Name:ewer:		
Date:_					
21.	Are there other safety concerns such as electrical hazards? Q Yes Q No		Q Sedimentation Basin Q Other		
22.	Can the operator answer basic questions about the treatment process, including what is done, as well as when and why things are done? Q Yes Q No	31.	Do daily operating reconhypochlorite dosages, cletc.? Q Yes Q No		,
23.	Is operator training needed on any aspect of operation and maintenance? Q Yes Q No	32.	Is the hypochlorite feed proportion to the rate of plant? Q Yes Q No		Э
24.	Have there been any interruptions in disinfection? Q Yes (explain) Q No	33.	Is the mixing during chi Q Yes Q No	orination adequa	ate?
	Tes (explain) UNO	34.	When was the latest calchemical feed equipmer		
25.	Is there at least a 0.2 mg/l disinfectant residual throughout the distribution system	35.	Is there an alarm tied to hypochlorite feed? Q Yes Q No	interruptions in	
26.	at all times? Q Yes Q No What disinfectant residual is maintained at the plant tap?	36.	Are instrumentation and manual controls for the Adequate? Q Yes Operational? Q Yes Utilized? Q Yes	process Q No	
27. 28.	Is there sufficient contact time between the disinfectant point and the first point of use? Q Yes Q No What are the contact time values for the	37.	Are there sufficient Backup equipment? Alternate processes? Spare parts?	Q Yes Q No Q Yes Q No Q Yes Q No)
	plant?(1cq)	38.	What is the condition of Chemical Feed equipme	ent?	
Нурос 29. 30.	Is hypochlorite used for disinfection? Q Yes What type Q No (Go to question 49) Where are the application points for hypochlorite? (Check all that apply)		Q Poor Q Fair Q Good Back up equipment? Q Poor Q Fair Q Good Spare parts? Q Poor Q Fair Q Good Day tanks? Q Poor Q Fair Q Good	Q Excellent Q Excellent	
	hypochlorite? (Check all that apply) Q Intake Q Flash Mix Q Flocculation Basin Q Top of Filters	39.	How often are the pump cleaned?	•	ines
	= 1 top of 1 mois				

		WATER TRI	EATMENT II
			System Name:
			ver:
Date:_			
41.	Are safe practices followed during chemical handling and mixing? Q Yes Q No	49.	Is chlorine gas being used Q Yes Q No (Go to question 88)
42.	Is appropriate safety equipment available and in use? (For example: self-contained breathing apparatus, goggles, gloves, eyewash, etc.) Q Yes Q No	50.	Where are the injection points for chlorine? (Check all that apply) Q Intake Q Flash Mix Q Flocculation Basin Q Plost Mixer Q Sedimentation Basin Q Clearwell
43.	Are the appropriate lighting, guards and railings etc., in place? Q Yes Q No	51.	Q Other What is the average daily chlorine usage (in pounds)?
44.	Are there other safety concerns such as electrical hazards? Q Yes Q No	52.	Do daily operating records reflect dosages, chlorine residual, etc.? Q Yes Q No
45.	Are there adequate spill containment provisions? Q Yes Q No	53.	Is the chlorine feed rate in proportion to the water flow rate? Q Yes Q No
46.	Are there any cross connections between the chemical feed makeup Water and injection points?	54.	Is there an alarm tied to interruption in the chlorine feed? Q Yes Q No
47.	Q Yes Q No Are there any cross connections in the piping that provides split feed to both raw and finished water?	55.	If more than one cylinder is used, are they manifolded with an automatic switch over to prevent running out of chlorine? Q Yes Q No
48.	Q Yes Q No Can the operator answer basic questions	56.	Are the cylinders on a working scale? Q Yes Q No
	about the treatment process, including what is done, as well as when and why things are done? Q Yes Q No		Are cylinder-mounted vacuum regulators used instead of pressurized metal feed lines? Q Yes Q No
Chlorin	e Gas	58.	Are the cylinders in use open a "quarter- turn" with a wrench in place for quick turnoff?

Is the solution tank covered to minimize

corrosive vapors? **Q** Yes **Q** No

40.

	Q Yes Q No
59.	Is the water supply to the chlorinator adequate? • Q Yes Q No
60.	Are there any potential cross connections between the chlorine feed makeup water and injection points? Q Yes Q No
61.	Are there any potential cross connections

tions in

	the piping that provides split feed to both raw and finished water? Q Yes Q No		
	WATER TRI	EATMENT	гп
		Water	System Name:
		Reviev	ver:
62.	Is there at least a 30-day supply of chlorine on hand?	69.	How many individuals are present when cylinders are changed?
	Q Yes Q No		
		70.	Is the chlorination room separate from the
63.	Is chlorine and other oxidizers properly stored and segregated from incompatible chemicals?		office and the rest of the treatment facility? Q Yes Q No
	Q Yes Q No	71.	Does the chlorination room have adequate ventilation at floor and inlet air supply from
64.	Are the cylinders restrained to prevent falling? • Q Yes Q No		across the room at ceiling level? Q Yes Q No
	Are they marked to indicate empty or full? Q Yes Q No	72.	Is the vent switch located outside and by the door? • Q Yes Q No
65.	Are there means for chlorine leak detection? Q Yes Q No	73.	Is temperature being monitored in the chlorine feed room? Q Yes Q No
66.	If automatic detectors are being used:	74	Deep the deep to the chloring record
	Date of last test? What is the detection level?	74.	Does the door to the chlorine room: Q Open outward? Q Yes Q No
	Is sensor tube screened? Q Yes Q No		Q Open outward? Q Yes Q No Q Have a panic bar? Q Yes Q No
	Is sensor tube screened? Q Yes Q No		Q Have a window? Q Yes Q No
	is sensor tube screened? Q i es Q No		Q Have proper labeling? Q Yes Q No
67.	Are there adequate leak containment		That's proper labeling. These Tho
· · ·	provisions? Q Yes Q No	75.	Is there a chlorine cylinder repair kit on site? Q Yes If "yes" where is it stored? Q No
68.	Are safe practices followed during cylinder changes? Q Yes Q No	76.	Is there a chlorine emergency response plan?
			Q Yes Date of last practice

11	•	-
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77.	Is appropriate safety equipment available and in use? (For example: self-contained breathing apparatus, goggles, gloves, eyewash, etc.) Q Yes Q No		
78.	Are self-contained breathing apparatus readily available and stored outside of the chlorine room? Q Yes Q No		
79.	Do all personnel receive training in the use of self-contained breathing apparatus and participate in periodic practice? • Q Yes Date of last practice • Q No		
80.	If chlorine cylinders are transported on site by water system personnel, are requirements of 49 CFR Parts 171 and 172 being adhered to? Q Yes Q No		
	RMP in place? Q Yes Q No		
81.	Are instrumentation and automatic and manual controls for the chlorination process: Adequate? Q Yes Q No Operational? Q Yes Q No Utilized Q Yes Q No		
82.	Is there sufficient: Backup equipment? Alternate processes? Spare parts? Q Yes Q No Q Yes Q No		
	WATED TI	REATMEN	гп
	WAIEKII	Water S	ystem Name:
			er:
83.	What is the condition of the: Chlorine feed equipment? Q Poor Q Fair Q Good Q Excellent Backup equipment?	85.	Are the appropriate lighting, guards and rails, etc. in place? Q Yes Q No
	Q Poor Q Fair Q Good Q Excellent Spare Parts? Q Poor Q Fair Q Good Q Excellent	86.	Are there other safety concerns such as electrical hazards? Q Yes Q No
84.	Is there a drain in the chlorine room? Q Yes Q No If there is a drain is it plumbed properly? Q Yes Q No	87.	Can the operator answer basic questions about the chlorine treatment process, including when and why it is done?

		(2 Yes	Q No
Ultrav	iolet T	`reatm	ent	
00	-	1.		(T. T. T.)

88.	Is an ultraviolet (UV) unit being used	1?
	Q Yes Q No (Go to question 101)	

89.	Is there an operation and maintenance
	manual and standard operating procedures
	for the UV unit?
	Q Yes Q No

90.	Are flows and turbidity levels within the
	design specifications of the UV unit?
	Q Yes Q No

91.	Are instrument	tation and	automatic	and
	manual control	ls for the p	rocess:	
	Adequate?	Q Yes	Q No	

Operational? Q Yes Q No Utilized? Q Yes Q No

92. Is there adequate turbulence and mixing to avoid short circuiting and to ensure good exposure?

Q Yes Q No

93. What is the condition of:

UV unit Q Good Q Fair
Q Poor Backup units Q Good Q Fair
Q Poor Spare parts Q Good Q Fair
Q Poor

94. Are UV units inspected and cleaned periodically?

Q Yes Last service date Q No

95. What is the frequency for inspection and cleaning?

96. Is adequate process control testing being done to determine the effectiveness of the UV unit?

Q Yes Q No

97. Are the appropriate lighting, guards and railings etc., in place?Q Yes Q No

98. Are there other safety concerns such as electrical hazards?Q Yes Q No

99. Are safe practices followed during operation

and maintenance of the UV unit? ${f Q}$ Yes ${f Q}$ No

100. Can the operator answer basic questions about the treatment process, including what is done, as well as when and why things are done?

Q Yes Q No

Ozone Treatment

101. Is an ozone unit being used?Q Yes Q No (Go to question 115)

		Water System Name: Reviewer: Date:		
102.	What type of ozone contractor is being used? • • • • • • • • • • • • • • • • • • •	111.	ozone unit? Q Yes Q No Are safe practices followed during operation	
	Q Eductor system Q Turbine Q Pack bed		and maintenance? Q Yes Q No	
102	Q Other	112.	Are the appropriate lighting, guards and railing, etc. in place? Q Yes Q No	
103.	Is there an operation and maintenance manual and standard operating procedures for the ozone unit? Q Yes Q No	113.	Are there other safety concerns such as electrical hazards? Q Yes Q No	
104.	Are the temperature and pressure of the water being treated within designed specifications? Q Yes Q No	114.	Can the operator answer basic questions about the treatment process, including what is done, as well as when and why things are done? Q Yes Q No	
105.	Is the mixing during ozonation adequate? Q Yes Q No	Iron an	nd Manganese	
106.	Where is the ozone injected? (Check all that apply) Q Intake Q Flash Mix	115.	Is iron and manganese removal being performed? Q Yes Q No	
	Q Flocculation Basin Q Sedimentation Basin Q Other Q Top of Filters Q Clearwell	116.	What are the normal and peak concentrations of iron and manganese in the raw water? Iron: Normal Peak	
107.	Are instrumentation and automatic and manual controls for the process Adequate? Q Yes Q No Operational? Q Yes Q No Utilized? Q Yes Q No	117.	Manganese: Normal Peak	
108.	What is the condition of: Air dryer equipment Q Good Q Fair Q Poor Dewpoint monitoring Q Good Q Fair Q Poor Ozone generator Q Good Q Fair Q Poor	118.	What chemicals are applied?	
	Contractor Q Good Q Fair Q Poor Backup equipment Q Good Q Fair Q Poor Spare parts Q Good Q Fair Q Poor	119.	Where are iron and manganese control chemicals applied? (Check all that apply) Q Intake Q Flash Mix	
109.	How often are ozone units cleaned?		Q Flocculation Basin Q Sedimentation Basin Q Plant Pond Q Top of Filters Q Clearwell	
110.	Is adequate process control testing being		Q Other	

120.	What are the i	normal and maximum feed
	rates?	
	Normal	Maximum_

	WATER TRE	'A TMENT	·п
	WAIER IRE	Water : Review	System Name:
121.	Is the mixing during chemical addition adequate? Q Yes Q No		Rapid Mix Q Yes Q No Flocculation Q Yes Q No Sedimentation Q Yes Q No
122.	Do daily operating records reflect dosages, chemical use, etc.? Q Yes Q No	131.	Does there appear to be excessive short
123.	Are instrumentation and automatic and manual controls for the process Adequate? Q Yes Q No		circuiting in the flocculation/sedimentation process? Q Yes Q No
	Operational? Q Yes Q No Utilized? Q Yes Q No	132.	Is there excessive floc carryover from the sedimentation process to the filter units? Q Yes Q No
124.	Are there sufficient Backup equipment? Alternate processes? Spare parts? Q Yes Q No Q Yes Q No	133.	Is sludge removal from the basins adequate? Q Yes Q No
125.	Is appropriate safety equipment available and in use? (For example: goggles, gloves,	134.	Is there a suitable sludge plan? Q Yes Q No
	etc.) Q Yes Q No	135.	Is the NTU on top of the filter units 2 NTU or less? • Q Yes • Q No
126.	Have operators been trained to use the safety equipment? Q Yes Q No	136.	Is adequate filtration being achieved? Q Yes Q No
	Has training been documented? Q Yes Q No	137.	Are instrumentation and automatic and manual controls for the filtration process Adequate? Q Yes Q No
127.	Are the appropriate lighting, guards and railings etc., in place? Q Yes Q No		Operational? Q Yes Q No Utilized? Q Yes Q No
128.	Are there other safety concerns such as electrical hazards?	138.	Is there filter to waste capability? Q Yes Q No
129.	Q Yes Q No Is there an accurate line drawing of the	139.	Are there individual sampling points for each filter? Q Yes Q No
,	treatment process? Q Yes Q No	140.	Is adequate filter backwash being achieved? Q Yes Q No
130.	Do the following processes appear adequate?	141.	Are proper procedures for filter backwash

being followed according to Standard Operating Procedures (SOP)? Q YesQ No

142. Is backwash water being monitored and Disposed of according to regulations?Q Yes Q No

		Water System Name:	
		Reviewer:	
Date:			
Date.	·		
143.	Is corrosion control necessary?		
143.	Q Yes Q No		_
	dies divo		
144.	If a corrosion control is being used, is the		_
177,	program adequate?		
	Q Yes Q No		_
	Q 165 Q 100		
145.	Are SOP Manuals available?		_
	Q Yes Q No		
	- 13 3 - 1 10		
146.	Are MSDS available?		
	Q Yes Q No		
Recon	nmendations:		
			_
			_
			_
			_
			_

	DISTRI	BUTION	
			r System Name:
			ewer Name:
		Date:	
1.	Are as-built maps of the system located in a		water system?
	readily available location?		Q Yes Q No
	Q Yes Q No		
_		7.	Are the lines in the system looped?
2.	Where are the maps located?		Q Yes Q No
3.	Are maps updated periodically?	8.	Does the distribution system have dead-
٥.	Q Yes Q No	0.	ends?
			Q Yes Q No
4.	Are additional maps readily available for		
	use by system personnel?	9.	Are there areas of the distribution system
	Q Yes Q No		that have abnormally low flows?
5	Is there a hydraulic model of the system?		Q Yes Q No
5.	Is there a hydraulic model of the system? Q Yes Q No	10.	Is the utility monitoring disinfection
	2 100 2 110	10.	15 the duffly monitoring distillection

Is the system interconnected with any other

6.

residuals throughout the distribution

system?

	Q Yes Q No
	Is there at least a 0.2 mg/l disinfectant residual throughout the distribution system at all times? Q Yes Q No
11.	Are proper disinfection procedures used: In new construction? Q Yes Q No After repairs? Q Yes Q No
12.	Is there a scheduled maintenance program? Q Yes Q No
13.	Is there a pressure monitoring program? Q Yes Q No
14.	Is there an adequate flushing program? Q Yes Q No x's/yr
15.	Are there sufficient values to isolate lines? Q Yes Q No
16.	Is there a value maintenance program? Q Yes Q No
17.	Is there a corrosion monitoring program? Q Yes Q No
18.	What types of pipe and material are present in the distribution system?
19.	Are the distribution system pipe and material ANSI/NSF certified? Q Yes Q No
20.	Does the system use: Altitude valves? Q Yes Q No Pressure reducing valves? Q Yes Q No Other control valves? Q Yes Q No
21.	Are all control valves functioning properly? Q Yes Q No
22.	Are control valves equipped with input and output pressure gauges? Q Yes Q No
23.	What is the frequency of main breaks?

24. Are there adequate repair materials on hand? Q Yes Q No 25. If repair materials are not on hand, how quickly can they be obtained?_ 26. Does the system have a leak detection program? Q Yes Q No 27. Does the system have an adequate safety Q Yes Q No

DISTRIBUTION Water System No.

		Revie	· System Name: wer Name:
28. 29.	Are safety practices followed during distribution system operation and repairs? Q Yes Q No Does the system have a backflow prevention		Role of the fire department in the determination of types and locations of new hydrants? Q Yes Q No
2).	program? Q Yes Q No		Policy for fire department to report water usage to the utility? Q Yes Q No
30.	Have all service connections been prioritized according to health hazard? Q Yes Q No	36.	What is the unaccounted for water percentage?
31.	Is the utility requiring protection on service connections with health hazards? Q Yes Q No		
32.	Have backflow prevention devices been installed at appropriate locations such as wastewater plants, hospitals, industrial locations, etc.? Q Yes Q No		
33.	Have any of the following backflow prevention assemblies been installed? Air gaps? Q Yes Q No Vacuum breaker? Q Yes Q No Double check valves? Q Yes Q No Reduced pressure devices Q Yes Q No Other Q Yes Q No		
34.	Is there a program to annually inspect and test the backflow prevention assemblies? Q Yes Q No		
35.	Have the following been established between the water utility and the local fir departments?		
	Policy and procedure for notifying the fire department when hydrant is out of service? Q Yes Q No		
	Procedure for notifying the utility when the fire department uses a hydrant? Q Yes Q No		
	Role of the fire department in the inspection and flushing of hydrants? Q YesQ No		

FINISHED WATER STORAGE IV

		Water system Name:			
		Reviewer Name:			
		Date:_			
1.	If the tank is a hydropneumatic type what is the: Cut in pressure	13.	Q Yes Q No Are overflow lines, air vents, drainage lines, or clean out pipes:		
	Cut out		Turned down and covered? Q Yes Q No		
2.	pressure Air to water ratio Are instruments and controls adequate and		Screened? Q Yes Q No Terminated a minimum of three pipe diameters above the ground or storage tank surface?		
ے.	operational?		Q Yes Q		
	Q Yes Q No		No		
3.	Are instruments and controls utilized and maintained? Q Yes Q No	14.	Is the drain from the tank connected to a storm water or sewer drain? Q Yes Q No If you is the good on the second of the secon		
4.	Are instruments and controls locked and properly protected?		If yes, is there an air gap? Q Yes Q No		
	Q Yes Q No	15.	Does the overflow piping extend a minimum of ten feet downgrade from the		
5.	Does low pressure level provide adequate distribution pressure? Q Yes Q No		foundation of the tank? Q Yes Q No		
	2 105 2110	16.	Does surface runoff and underground		
6.	Are backup systems provided? Q Yes Q No		drainage flow away from the storage structure? Q Yes Q No		
7.	Is there a bypass so the tank can be taken				
	out of service?	17.	Is the tank site protected against:		
	Q Yes Q No		Flooding? Q Yes Q No Icing? Q Yes Q No		
8.	Has professional inspection been performed		Vandalism? Q Yes Q No		
0.	to determine interior and exterior surface		vandansin: 2 105 2 100		
	conditions and structural integrity of the tank? Q Yes Q No	18.	Are the tank hatches locked and properly protected? Q Yes Q No		
	Date of inspection:	19.	Are tanks equipped with cathodic		
9.	Are interior coatings ANSI/NSF 61 approved? Q Yes Q No	19.	protection? Q Yes Q No		
		20.	Can the tank be isolated from the		
10.	Is the storage system designed for "direct pumping" into the distribution system? Q Yes Q No		distribution system? Q Yes Q No		
		21.	Are there provisions for maintaining the		
11.	Is the storage system designed to "float" on the distribution system? Q Yes Q No		water supply when the storage tank is out of service for maintenance or emergency situations? Q Yes Q No		
12.	Is the tank managed to provide turnover to	22			
	prevent stale water?	22.	Are storage tanks disinfested in accordance		

Q Yes Q No

FINISHED WATER STORAGE IV

		Water system Name:
23.	Is there a tap that can give a representative sample from the tank? Q Yes Q No	
24.	Are bacteriological samples collected and analyzed following tank maintenance? Q Yes Q No	Recommendations:
25.	Are safety precautions being followed during routine tank operation and maintenance? Q Yes Q No	
26.	Are safety climbing devices installed on the tank? Q Yes Q No	
27.	If the tank is in the vicinity of an airport or flight path are proper markings and lighting installed and maintained according to Federal Aviation Regulations? Q Yes Q No	
28.	Does the tank foundations appear structurally sound? Q Yes Q No	

	Distribution Pumps,	s, Facilities & Controls Water system Name: Reviewer Name:			
			wer Name:		
	And NCE ammoved lubricants used?		wells:		
1.	Are NSF approved lubricants used? Q Yes Q No		Waterproof? Vented?	Q Yes Q No Q Yes Q No	
2.	Is the appropriate amounts of lubricant used?		Locked?	Q Yes Q No	
	Q Yes Q No				
_		10.	Are permanent mounted		
3.	Are the following control systems reliable and protected? Low Suction Q Yes Q No		Structurally sound? Firmly anchored?	Q Yes Q No Q Yes Q No	
	Pressure Q Yes Q No Lightning Q Yes Q No Phase Protection Q Yes Q No Thermal Q Yes Q No	11.	Are ladder anchor poin Q Yes Q No	ts corroding?	
	Other Q Yes Q No				
4.	Are emergency/backup power systems provided?	12.	Are there any cross connections present? Q Yes Q No		
	Q Yes Q No	13.	Are there adequate reco Operational data?	ords of:	
5.	Are emergency/backup power systems exercised under load regularly?		Q Yes Q No		
	Q Yes Q No	14.	14. Are the rated capacities of the pumps adequate?		
6.	Do rotating and electrical equipment have protective guards?		Q Yes Q No		
	Q Yes Q No	15.	Are information tags or motors present and read		
7.	Are the facilities maintained properly? Q Yes Q No		Q Yes Q No		
8.	Are the facilities properly protected and	16.	Is the pump packing ad Q Yes Q No	justed properly?	
	locked?				
	Q Yes Q No	17.	Are drains and/or sump Q Yes Q No	pumps functional?	
9.	Are underground compartments and suction				

18.	Are pumping facilities equipped climate control devices? Q Yes Q No	with			
19.	Are equipment manuals readily a Q Yes Q No	vailable?			
20.	Are safety issues such as confine lockout/tagout, etc. Being addres Q Yes Q No				
Recor	nmendations:				
	MONITORIN	G, REPOI	RTING & DAT	A VERIFICATION	
			Reviewer Nam		
1.	Are maps maintained to identify points? Q Yes Q No	sampling		Corrosivity HPC Other	Q Yes Q No Q Yes Q No Q Yes Q No
2.	Is there adequate monitoring in t distribution system? Q Yes Q No	he	5.	Is the operator folloand testing procedu Q Yes Q No	owing proper sampling ures?
3.	Are the sampling points rotated? Q Yes Q No		6.		ting reports (MOR's)
4.	Is there adequate process control monitoring for:		_	Q Yes C) No
	PH No Alkalinity No Calcium Hardness Q Yes Temperature Q Yes			Are the proper num collected? Q Yes Q No	nber of samples being
	Temperature Q Yes Chlorine Residual Q Yes		8.	Is effective commu	nication procedures

	being maintained between the water system and the lab?	
	Q YesQ No	
9.	What is the name of the certified lab being	
	used?	
10.	Are copies of monitoring results on-site, for each rule?	•
	Q Lead and copper (Pb/Cu)Q Radionuclides (Rads)	
	Q Inorganic chemicals (IOCs)	
	Q Synthetic organic chemicals (SOCs)Q Volative organic chemicals (VOCs)	
	Q Nitrate/Nitrite (NO ₃ /NO ₂) Q Fluoride (Fl)	
	Q Total coliform rule (TCR) Q Turbidity (Turb)	
11.	Are copies of the following on file if	
	appropriate? Q Copy of Waivers	
	Q Production Permits	
	Q Withdrawal Permits	
	Q G/W Use Permits	
	Q NPDES/GAWP 10000 Permit	
Recon	nmendations:	

WATER SYSTEM MANAGEMENT & OPERATIONS VII

		Water System Name:		
l.	Does the system have a sufficient number of certified operators at all times? Q Yes Q No	10.	Does the utility maintain a complaint log detailing the location and nature of complaints? Q Yes Q No	
2.	Are there sufficient facilities to store parts inventory, equipment, vehicles, traffic control devices, lawn equipment and supplies? Q Yes Q No	11.	Does the governing body appear to be effective in overseeing the operation and maintenance of the water system? Q Yes Q No	
3.	Are there adequate facilities for the system personnel? Q Yes Q No	12.	Does the utility have an active public education program? Q Yes Q No	
1.	Have personnel been adequately trained? Q Yes Q No Are there on-going training programs? Q Yes Q No Do certified personnel attend training	13.	Does there appear to be adequate communication between the manager (superintendent) and the governing body? Q Yes Q No	
	required for certification renewal? Q Yes Q No	14.	Does there appear to be adequate communication between the manager and the workers?	
5.	Does the employee turnover rate or the absentee rate appear high? Q Yes Q No	15.	Q Yes Q No Is there cooperation between the water office and other municipal offices?	
5.	Is there a formal organizational chart? Q Yes Q No			
7.	What is the general procedure to obtain needed parts or maintenance?			
		16.	When was the last accident? When was the last "serious" accident causing workday loss?	
	Can the needed parts or maintenance be secured without affecting system performance? • Q Yes Q No	17.	Does the utility have a confined space entry program? Q Yes Q No	
3.	Are administrators familiar with plant needs? Q Yes Q No	18.	Are the appropriate safety equipment and protective clothing available? Q Yes Q No	
).	Are there long-range plans for: Facility replacement Q Yes Q No Alternative sources Q Yes Q No	19.	Have the operators been adequately trained in safety procedures and equipment? Q Yes Q No	
	Emergency response Q Yes Q No Long range budgeting Q Yes Q No		Has training been documented? Q Yes Q No	

WATER SYSTEM MANAGEMENT & OPERATIONS VII

Water System Name:

		Reviewer Name:		
20.	Has the utility compiled with the hazardous communication act as required by OSHA? Q Yes Q No Q N/A	26.	Do the rules and regulations governing	
21.	Does the water system have a written "mission statement" or "statement of purpose"? Q Yes Q No		system operations include provisions for: Past due accounts, collections, and conditions for shut-off and restoration service? Q Yes Q No Prospective customers having excessive	
22.	Does the utility have on file all documents relating to the origination or incorporation of the legal entity which is authorized to operate the system? Q Yes Q No		requirements for service? Q Yes Q No Conditions under which water main extensions for connecting new customers may be made? Q Yes Q No	
23.	Does the system have other written documents or information to provide orientation and/or training to new members of the Board on duties and responsibilities of their position? Q Yes Q No	27.	Do the rules and regulations governing system operations include procedures for making exceptions to the rules and provisions for amending the rules and regulations? Q Yes Q No	
24.	Do the rules and regulations governing system operation include the following provisions covering: The water system's responsibilities to the customer?	28.	Have customers been provided with rules and regulations of the system? Q Yes Q No	
	Q Yes Q No The customer's responsibility for receiving service? Q Yes Q No	29.	Does the governing Board hold regularly scheduled publically announced meeting? Q Yes Q No	
	The connection fees and deposits required for service? Q Yes Q No	30.	Is there a written agenda prepared for each Board meeting? Q Yes Q No	
25.	Do the rules and regulations governing the system operations include provisions for: The current rate schedule for each classification of customer (residential and commercial)?	31.	Are accurate minutes and records of all Board meetings and actions prepared and maintained? Q Yes Q No	
	Q Yes Q No The procedures for handling and resolving customer complaints? Q Yes Q No	32.	Are members of the public given time for comment at Board meetings? Q Yes Q No	
	The dates of monthly billings and late payment charges, if any? Q Yes Q No	33.	Are vacancies on the governing Board promptly and legally filled? Q Yes Q No	

34.	Are meetings frequently canceled because of the lack of quorum?		
	Q Yes Q No		
	ANA IDEED CAYCIDES A SA AN	A CIEMPATE O OPED ATTONIC VIII	
	WATER SYSTEM MAN	AGEMENT & OPERATIONS VII	
		Water System Name:	
		Reviewer Name:	
		Date:	
35.	Copies of approved Well Head Protection		
	Plan?		
	O Ves O No		

36. Copies of approved Water Protection Plan? **Q** Yes **Q** No